RFCA Stakeholder Focus Group Meeting Agenda

When: July 11, 2001 3:30 - 6:30 p.m.

Where: Broomfield Municipal Hall, Bal Swan and Zang's

Spur Rooms

3:30-3:40	Agenda Review, 6/6/01 Meeting Minutes Review, Objectives for this Meeting
3:40-4:00	RSAL Working Group Update
4:00-4:50	RSALs: ALARA Discussion
4:50-5:00	Break

5:00-5:40 RSALs: ALARA Discussion

5:40–6:00 RFCA Parties Feedback – What Heard, How Used, Decisions / Choices Made

6:00–6:15 RSALs: Task 3 – Plan Future Agenda Topics

6:15–6:25 RSALs: Task 4 – Discuss Need for Wind Tunnel Peer Review

6:25-6:30 Set Future Agendas and Review Meeting

6:30 Adjourn

ADMIN RECORD



RFCA Stakeholder Focus Group Attachment A

Title:

Agenda for July 11, 2001 Focus Group Meeting

Date:

June 25, 2001

Author:

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For The Agenda Group

- 1. Updated on UBC and industrial area characterization (Joe Legare, later meeting)
- 2. Internal Dosimetry (TimRehder)
- 3. NFA Process (RFCA attachment 6) (Joe Legare)

INTRODUCTION AND ADMINISTRATIVE

A participants list for the July 11, 2001 Rocky Flats Cleanup Agreement (RFCA) Stakeholder Focus Group meeting is included in this report as Appendix A.

Reed Hodgin of AlphaTRAC, Inc., meeting facilitator, reviewed the purpose of the RFCA Stakeholder Focus Group. He then went over the Meeting Rules. Introductions were made.

Reed reviewed the meeting agenda, which included:

- RSAL Working Group Update
- RSALs: ALARA Discussion
- RFCA Parties Feedback What Heard, How Used, Decisions / Choices Made
- RSALs: Task 3 Plan Future Agenda Topics
- RSALs: Task 4 Discuss Need for Wind Tunnel Peer Review

RSALS: TASK 3 – PLANNING FOR FUTURE AGENDA TOPICS

Reed introduced the topic and identified the objective for the discussion:

 Determine the Focus Group's priority for RSALs parameters and modeling discussions at the next several Focus Group meetings.

Reed laid out the future agenda topics as they currently stood, based on Focus Group and Agenda Group discussions:

- July 25: Presentation and discussion of the initial RSALs modeling results,
- August 8: Continuation of the modeling results discussion,
- August 22: Draft report to be completed; Focus Group to develop questions to send to the peer reviewers and questions of clarification to the agencies,
- September 19: Discussion of the peer review results and agency responses.

Reed noted that there would be time on the September 9, 2001 agenda for discussion of specific Task 3 topics – and perhaps time at other meetings as well. The Focus Group felt that key input parameters should be discussed in detail, including how each parameter varies across the land use scenarios. The sensitivity of the end results

(RSALs) to variations of the key parameters was also of interest. The most likely candidates for key parameters were identified as:

- Inhalation Rate
- Soil Ingestion Rate
- Mass Loading
- Dose Conversion Factors (ICRP 30 vs ICRP 72)
- Vegetation Intake.

RSAL WORKING GROUP UPDATE

Tim Rehder of the U.S. Environmental Protection Agency (EPA) briefed the Focus Group on the June 28, 2001 RSALs Working Group meeting. He stated that there were three topics of discussion:

- 1. Dose Conversion Factors,
- 2. Plant Uptake Factor, and
- 3. Soil Ingestion Rates for Adults.

Tim stated that prior to the meeting, the Working Group was planning on using the same dose conversion factors that the Risk Assessment Corporation (RAC) study had used, based on ICRP 72 methodology. Based on a memorandum submitted by Jim Benetti on June 5, 2001, the RSALs Working Group recommended using a different dose conversion factor for inhalation than the one used by the RAC. Benetti indicated that the Working Group could justify using the S Class, or the small clearing class, for the inhalation dose conversion factor as applied by RAC. However, since there is not a large body of soil data indicating that all the plutonium is indeed in a tetravalent oxide state, it would be more prudent to assume the M class, which predicts roughly a 50 times higher dose per mass inhaled. The group decided to go with that M class for the dosimetry. That will make a fairly significant difference in the calculation.

Tim stated that the Working Group is evaluating the plant uptake factor being used in the calculations. The Working Group, in conjunction with the Rocky Flats Citizens Advisory Board, will ask questions of Ward Wicker and try to get resolution on that issue.

The Working Group is concerned that the soil ingestion parameter for adults that is currently being considered by the group is based on a study involving only 60 adults.

Broomfield City Hall July 11, 2001, 3:30-6:30 p.m.

The Working Group has not been able to identify a more robust data source. The Working Group is considering adopting a distribution appropriate to a study with a limited cohort: a uniform distribution with a low point of 30 mg / day and a high point of 100 mg / day.

A member of the Focus Group asked if candidate RSALs would be calculated using both dose conversion factor methodologies (ICRP 30 and ICRP 60/72). Tim answered that both calculations would be performed for comparison.

Tim was asked for further explanation of the change in Inhalation Dose Conversion Factor. He responded:

"There's always been, within the dose conversion factors, the ability to choose dose conversion factor based on how soluble it is. If we were dealing with plutonium nitrates in the soil, we wouldn't use the most soluble form. With this issue, the RAC made the decision. We have pretty good data that says the plutonium at Rocky Flats is primarily an ionized state. Therefore, we should go with the S class, the least soluble class. Benetti put out the argument, although we do have observational data for the groundwater that says it's not very soluble and we also have direct measurements through some of the samples that were taken by the 903 pad and studied in the Los Alamos program and the Stanford Cyclotron that says it's found potentially as an oxide. Given the magnitude of the position, we don't have as many samples as we would want to make that and it would be more prudent to go with the M class."

A member of the Focus Group then asked about chemical changes to plutonium once it is introduced into the body. The topic was deferred for potential future discussion with experts in the area.

RSALS: ALARA DISCUSSION

Joe Legare of the U.S. Department of Energy (DOE) presented and led a discussion on the application of the As Low as Reasonably Achievable (ALARA) process during cleanup of Rocky Flats (Appendix B).

Joe explained that this would be the first discussion on ALARA. It is an opportunity to present a perspective and some concepts related to processes in place or anticipated processes in future, on how ALARA applies to cleanup and cleanup decisions at Rocky Flats.

Joe described the regulatory definitions of ALARA:

Broomfield City Hall July 11, 2001, 3:30-6:30 p.m.

- DOE Order 5400.5,
- 10 CFR 20.1003, and
- 6 CCR 1007-1 RH 1.4.

Joe indicated that an ALARA action could occur under two general conditions – when a cleanup action has been planned for an area, and when cleanup is not otherwise triggered.

ALARA may come into play for a planned cleanup when there may be a benefit to performing a more extensive remediation. For instance, an action is required, but there may be a health benefit for a more extensive action. There may be a benefit of more extensive excavation or other remediation to reduce contaminant concentrations below the action level.

ALARA may also be applied when cleanup is not otherwise indicated. He referred to candidates for such action as "warm spots" – areas where contamination exists, but nowhere in the area are levels high enough to trigger an action under the RSAL(s). He stated that there might be something about the nature or location of such an area where there would be a benefit that justifies the cost of remediation.

Joe listed examples of areas at Rocky Flats where it seems an ALARA process would be appropriate. Joe listed the areas most likely to impact the cleanup as:

- Original Process Waste Lines,
- Trench 7,
- Ash Pits.
- Original landfill,
- 903 Pad,
- IHSSs found to contain diffuse contamination,
- Under building contamination.

Joe next described a vision of how the ALARA process would be applied to each situation. He noted that he views ALARA as essentially a subjective analysis – a case-by-case evaluation of the question, "Does it make sense to go further with cleanup at this location?"

Joe indicated that the list of sites to be considered under the "action has already been triggered" category will be well defined – those sites that trigger the RSALs. The ALARA process for these sites is then essentially embedded in the CERCLA process – the application of the threshold criteria and modifying criteria that have already been discussed. Joe noted that the RFCA Agencies have identified a potential opportunity in

Broomfield City Hall July 11, 2001, 3:30-6:30 p.m.

the RSAL matrix being developed as a part of Task 3 in the RSAL Review. The boxes in the matrix will represent a rigorous dose and risk assessment across a number of scenarios and a wide risk range. The values NOT used to establish the RSAL(s) could form a more quantifiable basis (and justification) for ALARA actions beyond the basic cleanup requirements.

Joe then described a way that the ALARA process could be framed for those areas where actions are not triggered by RSALs. He referred the group to a process described in Attachment 6 to the RFCA that could be used or modified to evaluate "warm spots." The process screens out areas where the contamination is so low that a determination of "No Further Action" can be made. He indicated that the candidates for evaluation under this process had largely been identified in the Historical Release Report, and that the method used to develop the report could be applied further as necessary. So far, 367 candidate sites had been identified and approximately 80 sites were going through the process.

A member of the Focus Group asked if the experience in using the RFCA Attachment 6 process could be used to gain an idea of how "ALARA for Warm Spots" had been applied historically (without knowing that it was ALARA). This could serve in a way as a baseline for understanding and defining ALARA now. Joe agreed to conduct such an analysis.

A member of the Focus Group noted the parallels between the ALARA discussion and the discussion on Stewardship. The criteria for performing ALARA exist in the CERCLA criteria. The challenge is in agreeing on how the criteria should be balanced.

A Focus Group member asked how the ALARA process could be applied successfully as part of the remediation under the Environmental Restoration RFCA Standard Operating Protocol (ERRSOP), where characterization and remediation would be occurring at the same time, in the field. Joe responded that the guidance for applying ALARA during these clean-ups (essentially, on-the-spot ALARA decisions) would have to be included in the ERRSOP. He noted that the ERRSOP would need to be strengthened in this area.

The Focus Group then held a discussion concerning a memo issued by Tom Pentecost of CDPHE regarding application of ALARA under the Nuclear Regulatory Commission (NRC) rule. The discussion centered on the NRC concept that ALARA would be applied to establish the "As Low As Reasonably Achievable" remediation to be conducted if a site could not be remediated to the 25 mrem dose level. Members of the Focus Group expressed concern that the memo seemed to indicate a use of ALARA that is inconsistent with discussions at the Focus Group meetings. The agency representatives emphasized that the State regulation, based on the NRC rule, was an ARAR, and that the primary result was the consideration of a 25 mrem dose level in

Rev. 0: 08/15/01

setting the RSAL. Joe noted that the 25 mrem level may not be relevant in a practical sense – it is possible that the risk associated with 25 mrem will fall outside the CERCLA risk range.

A Focus Group member noted that ALARA could be conducted as purely a numerical cost-benefit analysis and asked if the Agencies were planning on this approach. Joe responded that the quantitative cost-benefit approach would not be used in the Rocky Flats cleanup, and reiterated that a subjective approach, probably aligned with the CERCLA criteria would be employed. He noted that cost was one of the CERCLA criteria and confirmed that cost would be considered as one of the elements in the subjective ALARA decision for sites that triggered the RSAL. He stated that cost would certainly be considered along with benefits to be gained when looking at sites that did not trigger the RSAL.

A member of the Focus group asked if ALARA would focus strictly on source removal. Joe responded that it was simpler to talk in terms of removal for this discussion, but that alternative actions such as engineered controls should also be considered under ALARA.

In response to a question from the Group, Joe assured the Focus Group that a costbenefit analysis would not be used to establish the RSAL. The RSAL is intended to be a health-based number.

The Agencies responded to a question about a recent Supreme Court decision and its applicability to setting RSALs. They noted that the Supreme Court had forbidden the use of cost-benefit analysis in establishing a standard and stated that the precedent was not applicable to the Rocky Flats cleanup, as no standard was being set.

The group discussed further the possibility that ALARA could be used in the case that it was not practical to achieve full cleanup in an RSAL-triggered area. In this circumstance, ALARA could be used to determine what IS reasonable to accomplish, given that the CERCLA cleanup could not be fully achieved. The Agencies noted that this possible application was being included for completeness – there was no intention or expectation that the situation would develop at Rocky Flats. Members of the Focus Group expressed a strong intent that such a situation should be avoided.

RFCA PARTIES FEEDBACK – WHAT HEARD, HOW USED, DECISIONS / CHOICES MADE

Reed introduced the topic by saying that the Agenda Group had asked for a briefing by the RFCA agencies on how cleanup decisions are being / will be made. When he took

Broomfield City Hall July 11, 2001, 3:30-6:30 p.m.

the request to the Agencies, they responded that they felt the process had been thoroughly described at previous meetings and asked for a more specific request to fill in the holes for the Focus Group. Reed stated that his approach to addressing the issue was to prepare a White Paper describing the decision-making process as he understood it. The White Paper could serve as a basis for the continuing dialog between the Focus Group and the Agencies.

Reed then presented a summary briefing on the White Paper to the Focus Group (Appendix C).

The Agency representatives agreed that Reed's understanding of the process was accurate, except where the RFCA Principals get involved. They stated that the RFCA Principals get directly involved in the decision-making process at two points only:

- When a decision document is complete in draft form and ready for formal public comment (in the opinion of the Project Coordinators), the RFCA Principals will review the document and make a final determination if the document is ready for public review and comment, and
- When all public comments have been received, responded to, and revisions made to the decision document, the RFCA Principals will review the public comments, the agency responses, and the associated revisions to the document. The RFCA Principals will then make a decision on whether or not to approve the decision document (and thus make the associated cleanup decision).

Reed then opened up the topic for dialog with the Focus Group.

The first issue discussed was the participation / influence of management above the level of the Principals in DOE and EPA (DOE-Headquarters and EPA-Headquarters). The agencies were asked if the decision-making authority ultimately rested in the Headquarters organizations rather than at the local level.

DOE confirmed that the formal decision-making authority in DOE rests with the DOE Manager. DOE replied that its Headquarters was being kept informed about the cleanup decision process at Rocky Flats and was very interested. The DOE representatives indicated, however, that it was very important that DOE Headquarters understand the decisions being made and agree with them. They stated that Headquarters probably could insert itself into the process if it thought it needed to, which is why it is important to keep DOE-Headquarters informed and on board with the decisions being made locally.

EPA indicated that only limited discussions are being held with its Headquarters, and that those interactions are mostly technically- rather than policy-related.

Broomfield City Hall July 11, 2001, 3:30-6:30 p.m.

A member of the Focus Group expressed concern that the decision-making process may be more involved than is being presented to the Focus Group and that there may be outside influences participating behind the scenes, such as DOE-Headquarters, EPA-Headquarters, and Congress. He stated that there was displeasure among some members of the community regarding where the RFCA Project Coordinators were going with the decision regarding the RSAL Land Use Scenario and stated that it was important for the RFCA Principals to hear opinions directly from the community members.

Reed asked the Agencies for the status and process for making the decision on the anticipated land use scenario for the RSAL review. Joe Legare of DOE stated that the RFCA Project Coordinators were developing a recommendation on the land use scenario to be presented to the RFCA Principals. He said that the recommendation was being developed with the participation of stakeholders, principally through the RFCA Stakeholder Focus Group. He said that all options were still on the table and were being discussed. He emphasized that the RFCA Project Coordinators are taking the input from the Focus Group, the agencies' technical staffs, the agencies' legal staffs, etc. and developing a recommendation considering all inputs. He noted that, while the issue is still open for discussion, the RFCA Project Coordinators are in agreement that, unless some compelling new information develops, the recommended anticipated land use scenario will be the Wildlife Refuge Worker. He stated that the recommendation had not been made officially to the RFCA Principals yet and that it would be made as part of the draft Task 3 report submission to the Principals. The scenario choice would become a formal decision when the RSAL report is finalized after formal public comment.

Tim Rehder of EPA stated that his recommendation to the EPA Principal would be that the Wildlife Refuge Worker was the appropriate anticipated future land use scenario. He indicated that this recommendation had the concurrence of technical and legal staff at EPA.

A member of the Focus Group expressed concern that a National Research Center report indicated that no DOE sites could be cleaned up to unrestricted use. He asked if that meant that the decisions about Rocky Flats had essentially already been made at a Congressional or DOE-Headquarters level. DOE responded that it had been stated several times that some contamination would be left at Rocky Flats and that engineered and/or institutional controls would be necessary to manage the remaining contamination. They said that the decisions to be made were associated with how much to clean up in what areas and what controls to put in place. They indicated that the dialog with the Focus Group, including the establishment of RSALs, was intended to address these issues.

Broomfield City Hall July 11, 2001, 3:30-6:30 p.m.

Rev. 0: 08/15/01

A Focus Group member explained that the concern of some was whether the members of the community should be talking directly with the RFCA Principals or others within the RFCA Agencies, especially if persons outside the Focus Group discussions are significantly influencing cleanup decisions.

ADJOURNMENT

Reed noted that meeting time had run out before addressing the Wind Tunnel Peer Review and promised to make time on the next agenda for that topic.

The Focus Group meeting was adjourned at 6:35 pm.

Appendix A
Participants List

Appendix B
Joe Legare, U. S. Department of Energy:
Presentation: Application of ALARA Process During Cleanup
of Rocky Flats

Rev. 0: 07/12/01

Appendix C
Reed Hodgin: AlphaTRAC, Inc.
Cleanup Decision-Making at Rocky Flats Under the RFCA
A Facilitator's View

Rev. 0: 07/12/01

RFCA Stakeholder Focus Group July 11, 2001 Participants List

NAME

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Melissa	Anderson	RFCLOG

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APPLICATION OF ALARA PROCESS DURING CLEANUP OF ROCKY FLATS

July 11, 2001

ALARA - Regulatory Definitions

DOE O 5400.5 - As Low As Reasonably Achievable (ALARA) is a phrase (acronym) used to describe an approach to radiation protection to control or manage exposures (both individual and collective to the work force and the general public) and releases of radioactive material to the environment as low as social, technical, economic, practical, and public policy considerations permit. ALARA is not a dose limit, but rather it is a process that has as its objective the attainment of dose levels as far below the applicable limits of the Order as practicable.

10 CFR 20.1003 - ALARA (acronym for "as low as reasonably achievable") means making every reasonable effort to maintain exposures to radiation as far below the dose limits in this part as is practical consistent with the purpose for which the license activity is undertaken, taking into account the state of the technology, the economics of improvements in relation to state of technology, the economics of improvements in relation to benefits to the public health and safety, and other societal and socioeconomic considerations, and in relation to utilization of nuclear energy and licensed materials in the public interest.

6 CCR 1007-1 RH 1.4 – "As low as is reasonably achievable" (ALARA) means making every reasonable effort to maintain exposures to radiation as far below the dose limits in these regulations as is practical, consistent with the purpose for which the licensed or registered activity is undertaken, taking into account the state of technology, the economics of improvements in relation to state of technology, the economics of improvements in relation to benefits to the public health and safety, and other societal and socioeconomic considerations, and in relation to utilization of nuclear energy and licensed or registered sources of radiation in the public interest.

Summary of Considerations When Performing an ALARA Analysis

Social
Technical
Economic
Practical
Public policy
Public health and safety

When is a discussion of ALARA relevant?

- Action is not triggered but there may be a benefit to performing remediation that is otherwise not contemplated (not required by regulation)
- Action is triggered and there may be a benefit to performing more extensive remediation than is otherwise not contemplated (not required by regulation)

Examples of Where an ALARA Analysis May Be Applied

- An area of concern does not contain contamination above an action level or PPRG, but due to the nature or location of the AOC, there may be a benefit that justifies the cost of remediation.
- An action is required, but there may be a health benefit for a more extensive action. The Lip Area and Americium Zone contain a concentration gradient radiating from the 903 Pad. The action level may fall somewhere between the lowest and highest associated isopleths. There may be a benefit of more extensive excavation or other remediation to contaminant concentrations below the action level.

Where is ALARA most likely to impact the cleanup of Rocky Flats?

- Original Process Waste Lines
- Trench 7
- Ash Pits
- Original Land Fill
- 903 Pad
- IHSS's thought to contain discrete contamination but found to contain diffuse contamination
- UBC

ALARA - Process

- Quantitative cost-benefit analysis (e.g., optimization) could be performed
 - Parameters needed to evaluate the cost-benefit analyses are difficult to quantify
 - Evaluations themselves can be expensive
 - Evaluations include many additional assumptions, judgment, and limitations that are often difficult to reflect as uncertainties in the analyses

ALARA – Process

- Qualitative analyses are justified, in most instances, for ALARA judgments, especially where potential doses are well below the dose limit
 - Basis for such judgments should be documented
 - More detailed analysis should be considered if the decisions might result in doses that approach the limit or the limit can't be feasibly met.
- For residual radioactivity in soil at sites that will have unrestricted release, generic analyses show that shipping soil to a low-level waste disposal facility is unlikely to be cost effective for unrestricted release, largely because of the high costs of waste disposal. Therefore shipping soil to a low-level waste disposal facility generally does not have to be evaluated for unrestricted release.

ALARA - Approach

- Top down review of whether an action should be taken
 - Review of RSALs and PPRGs
 - HRR
 - AOC, PAC, UBC, IHSS
 - New Characterization Data

Bottom up analysis

- No Action
- No Further Action
- No Further Remedial Action

ALARA Process – Top Down Approach When an action is triggered

CERCLA ALTERNATIVES ANALYSIS

Threshold Criteria:

<u>Compliance with ARARs</u> - Addresses whether a remedy will meet the applicable and relevant and appropriate Federal and state standards or whether a waiver is justified.

Overall protection of human health and the Environment - Addresses whether a remedy provides adequate protection of human health and the environment and discusses how risks are eliminated, reduced or controlled through treatment, engineered controls or institutional controls.

ALARA Process – Top Down Approach When an action is triggered

CERCLA ALTERNATIVES ANALYSIS

Primary balancing criteria are key factors in ALARA process assessments. Although the Reduction of toxicity, mobility, or volume criterion is not addressed in detail, processes or techniques such as these that can reduce migration and possibly dose should be considered and addressed in the selection of alternatives.

- Short-term effectiveness
- Long-term effectiveness
- Reduction of toxicity, mobility, or volume
- Implementability
- Cost

ALARA Process – Top Down Approach When an action is triggered

CERCLA ALTERNATIVES ANALYSIS

Modifying Criteria:

State acceptance - Indicates whether the state concurs with or opposes or has no comment on the preferred alternative.

<u>Community acceptance</u> - Summarizes the public's response to the alternatives.

ALARA Process – Top Down Approach When an action is triggered

CERCLA ALTERNATIVES ANALYSIS

- Balancing criteria are predominantly subjective
- Therefore, use the Risk/Dose RSAL table for radiological contamination to provide an additional indicator of benefit relative to costs (and other factors).

ALARA Process – Bottoms up approach

When an action is not triggered

RFCA Attachment 6 – No Action/No Further Action/No Further Remedial Action Decision Criteria

- Source Evaluation
- Background Comparisons
- CDPHE Conservative Screen
- Risk-Based Screening of Chemicals
- CERCLA Baseline Risk Assessment

Summary

The ALARA process will be applied to determine if:

- additional cleanup beyond a regulatory threshold meets ALARA
- an action is warranted even though a regulatory trigger was not reached

The principles of ALARA as described in DOE and NRC orders and guidance are embedded in the RFCA/CERCLA/RFCA regulatory approach for selecting and implementing remedial and corrective actions

What is reasonably achievable beyond what is required is a subjective standard and is (or should be) contained in the alternatives analysis. However, the RSAL table can assist in providing a quantitative measure to the benefit of further remediation.

The ALARA process is invoked both at a high level as integrated risk management decisions are made in consideration of social, technical, economic, practical, public policy, and public health and safety factors, and case-by-case for each IHSS and AOC.

Next Steps

- Obtain agreement on the applicability of ALARA goals
- Identify where ALARA will be applied on site
- Clarify how ALARA will be explicitly addressed in decision documents
- Discuss stakeholder involvement in the NFA process

Cleanup Decision-Making at Rocky Flats Under the Rocky Flats Cleanup Agreement (RFCA) – a Facilitator's View

C. Reed Hodgin Facilitator, RFCA Stakeholder Focus Group

The following is my understanding of the decision-making process being applied to cleanup decisions at the Rocky Flats Environmental Technology Site (RFETS), and how the RFCA Stakeholder Focus Group fits into the process.

WHAT GOVERNS CLEANUP DECISIONS?

RFCA is the regulatory foundation for cleanup at RFETS and represents a formal agreement among the cleanup parties – the U. S. Department of Energy (DOE), the U. S. Environmental Protection Agency (EPA), and the Colorado Department of Public health and Environment (CDPHE). The RFCA integrates the complex regulatory requirements for Rocky Flats, overseen by multiple regulatory agencies, into a single regulatory agreement.

Activities under this agreement are regulated by the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), the Resource Conservation and Recovery Act (RCRA), the National Oil and Hazardous Substances Pollution Contingency Plan, the Colorado Hazardous Waste Act (CHWA), and their implementing regulations, and other applicable State environmental laws. DOE is responsible for satisfying the requirements of the agreement even if the work is ultimately performed by another agent, such as the Rocky Flats integrating management contractor. All cleanup decisions are made within the RFCA framework.

WHO ARE THE DECISION-MAKERS?

The ultimate decision-makers in the RFCA process are the Agency "Principals." The designated Principals are:

Cleanup Decision-Making At RFETS - A Facilitator's View

• CDPHE: Director, Office of Environment

• EPA: Deputy Region VIII Administrator

DOE: Manager, Rocky Flats Field Office.

However, it is important to remember that decision-making under RFCA is a PROCESS, rather than personal decisions by the Principals. The process involves investigation and alternatives evaluation at the staff level in one or more of the agencies, joint evaluation of alternatives, and development of a recommended decision. The Principals are kept up-to-date on the decision development process but are not usually directly involved. They get involved when a joint recommendation is agreed upon at the working level and ready for their review or when agreement can not be reached among the agencies and the disagreement can not be resolved at lower levels.

The Principals reserve the right to make decisions that disagree with staff recommendations, but in practice are highly likely to concur in proposed decisions that have the joint support of their staffs. It is a safe working assumption that extraordinary circumstances (such as key new information not known to the staffs) would have to exist for the Principals to discard a recommendation jointly agreed to by the agency staffs.

Because of this, the most important agency representatives in the decision-making process are the RFCA Coordinators. Each agency Principal has designated a RFCA Coordinator to act as the lead for the agency's participation in the RFCA process and to interact with their counterparts at the other agencies in developing recommendations. The RFCA Coordinators lead and coordinate the day-to-day investigations and evaluations by the agency staffs; review and concur with working-level findings, choices, and recommendations; and lead the development of recommended decisions for submittal to the Principals. Because of the RFCA Coordinators' designated responsibilities and intimate familiarity with the issues, the Principals rely heavily on the advice of the RFCA Coordinators and trust them to bring forward sound, jointly supported recommendations.

It should be noted that, under its contract, Kaiser-Hill is directly involved in the staff level investigations and evaluations conducted in support of cleanup decision-making. However, Kaiser-Hill is NOT a party to RFCA – it advises and acts as technical support to one of the parties (DOE). Kaiser-Hill may propose recommendations and strategies to DOE, but DOE is solely responsible for any findings or recommendations it takes to the other RFCA parties.

Cleanup Decision-Making At RFETS – A Facilitator's View

WHAT IS THE MECHANISM FOR DECISION-MAKING?

The key cleanup decisions under the RFCA will be made through the development, review, and approval of decision documents. Examples of such decision documents are: Draft Permit Modifications/Proposed Plans, RFCA Standard Operating Protocols (RSOPs), Proposed Action Memorandums (PAMs), Interim Measure/Interim Remedial Actions (IM/IRAs), Closure Plans, the RFCA Integrating Decision Document (RIDD), and the Radioactive Soil Action Level (RSAL) Review.

Under RFCA, the documents are submitted to and approved by the "Lead Regulatory Agency." RFCA designates the EPA as the Lead Regulatory Agency on remedial activities in the Buffer Zone or offsite areas and the State for the industrial area and any issues surrounding siting of a waste facility. The RIDD and RSAL Review are jointly authored by the three agencies.

HOW IS THE COMMUNITY INVOLVED IN CLEANUP DECISION-MAKING?

The RFCA agencies have been expanding the traditional regulatory formal comment process to include informal interaction with and input from the community. Forums such as the D&D Pizza Group and the RFCA Stakeholder Focus Group are examples of this trend.

The community is directly involved in formulating cleanup decisions for Rocky Flats in four formal and informal ways:

Formal Public Comment on Draft Decision-Documents

The RFCA specifies that public review and comment will be provided for key decision documents such as those listed above. This is the traditional regulatory public comment process and is consistent with requirements under CERCLA. A formal comment period will be announced and comments collected. The authoring agency will review and, where appropriate, incorporate comments

received. The Lead Regulatory Agency will determine if public comments have been properly addressed and either accept the revised draft document or return it to the authoring agency for further revision.

Rocky Flats Citizens Advisory Board

The Rocky Citizens Advisory Board (RFCAB) is tracking and reviewing cleanup decisions at RFETS. The RFCAB is intended to represent the diverse views existing in the broad community at and surrounding RFETS. The RFCAB develops recommendations and submits its recommendations jointly to DOE, CDPHE and EPA. Members of the public may apply for positions on the Board or participate directly in subcommittee deliberations.

Rocky Flats Coalition of Local Governments

The Rocky Flats Coalition of Local Governments (RFCLOG) is tracking and reviewing cleanup decisions at RFETS. The RFCLOG is intended to represent the views of the local governments surrounding RFETS. The RFCLOG develops recommendations for submittal to agencies and governments. Local governments appoint representatives to the Coalition.

RFCA Stakeholder Focus Group

The RFCA Stakeholder Focus Group was created to provide direct interaction between interested members of the community and the RFCA Project Coordinators and associated agency staffs. The intention is for the community to bring issues of concern as well as community values and interests to the RFCA parties early in the process of decision formulation. In this way the agency staffs and Project Coordinators can consider community concerns DURING the development of recommended decisions. The draft decision documents will thus already incorporate much (hopefully "most") of the community's needs and values when they are issued for formal public review. To the extent that the decisions and documents have the support of key members of the community, the decisions and commitments will be stronger and more likely to succeed.

The RFCA Stakeholder Focus Group does not replace any of the other community involvement processes. In a sense, it directly involves key

community members in preparing for success in the public comment process – and strengthens the prospects for overall success in the cleanup of Rocky Flats.

DECISION-MAKING FOR THE RSAL REVIEW

A specific decision-making process has been established for decisions related to the RSAL review:

- Agency technical staff prepare a draft decision-support report.
- The RFCA Project Coordinators review the draft report.
- When the RFCA Project Coordinators agree on the content of the draft report, they submit the report to the RFCA Stakeholder Focus Group for review and comment (and where needed, peer review).
- The Focus Group discusses the draft report and provides comments and input to the RFCA Project Coordinators and technical staff.
- The RFCA Project Coordinators work with the technical staff and the Focus Group to resolve the Focus Group comments.
- The RFCA Project Coordinators submit the draft report, along with any unresolved Focus Group comments, to the RFCA Principals. The RFCA Principals make no decision at this time.
- The RFCA Principals issue the composite RSAL Review report for formal public comment.
- The RFCA Project Coordinators and technical staff resolve public comments.
- The RFCA Project Coordinators submit pu7blic comments, responses, and any unresolved issues to the RFCA Principals.
- The RFCA Principals evaluate the pu7blic comments, responses, and any unresolved issues and make a final joint decision on the RSAL.

RFCA Stakeholder Focus Group Attachment B

Title:

Meeting Minutes for July 11, 2001 Focus Group

Meeting

Date:

August 15, 2001

Author:

C. Reed Hodgin

AlphaTRAC, Inc.

Phone Number:

(303) 428-5670

Email Address:

cbennett@alphatrac.com

NOTES FROM RSALs WORKING GROUP MEETING ON 6/28/01

ITEMS COVERED ON 6/28:

- 1. Task 3 report outline.
- Plant uptake factors for RESRAD vs. RAGS.
 July 11th Focus Group meeting

ACTIONS

Action Item	Who	When	Notes
Investigate plant uptake	Diane	7/12/01	
factors for RESRAD vs.	Niedzwiecki	 - -	
RAGS.		į	
Perform RESRAD runs for	Tom Pentecost	7/12/01	
those scenarios not			
involving plant uptake			
(identify any additional			
data that is needed).			
Prepare materials for next	Diane	7/11/01	Plant uptake and soil ingestion
Focus Group meeting	Niedzwiecki		parameters
	Susan Griffin.		
Prepare materials for Task	Diane Niedzwiecki, Susan Griffin, Phil	TBD	Comparisons of parameters
3 briefing to Focus Group	Goodrum, Bob		used in the various RSAL
meeting	Nininger		reviews; and an uncertainty
	Bob Benetti		analysis of parameters used
Add assignees column to	Tricia Powell	6/28/01	Sandi will distribute to
task 3 report outline and			working group. Group
provide to Sandi.			members should review outline
			prior to 7/12 meeting and be
			prepared to complete the
			assignments for sections.
Notify AlphaTRAC	Jeremy	7/2/01	
regarding 7/11 Focus	Karpatkin		
Group meeting			

DECISIONS

- 1. There will not be a working group meeting on July 5th.
- 2. The working group will not be ready to present at the 7/11 Focus Group meeting. Jeremy will notify AlphaTRAC.

NEXT MEETING: THURSDAY, 7/12, 8:30 a.m. at Rocky Flats B060

Agenda Items:

- 1. Finalize the Task 3 report outline and assign responsibility for writing each section to working group members.
- 2. Discuss the plant uptake factor information from Diane.
- 3. Discuss the RESRAD results (or additional data necessary, if runs not completed).

RFCA Stakeholder Focus Group Attachment C

Title:

RSALs Working Group Notes for June 16 and 28,

2001

Date:

June 29, 2001

Phone Number:

(303) 428-5670

Email Address:

cbennett@alphatrac.com

RSAL Working Group Objectives

-Keep up to date on the dose /risk analysis for RSALS

Baseline

Cost Projections

Objectives

-Understand

- -Basis for baseline budget
- -Uncertainties in baseline budgets
- -Impacts of under or over-runs

Surface Water Objectives

- -Clarification / understanding of issues and options
- -ID of other issues and options

(Are the questions right?)

-ID of key issues and options for focus and holistic discussion

End state questions and issues to watch

- -What assumptions exist in the baseline
 - -What are the baseline \$?
 - -What is current \$ estimate?
 - -How good is estimate?

Lifecycle and lifetime of options

Community Priorities (from FG Members)

- -Risk level = 10^{-6}
- -Water quality standard met offsite
- -Water quality standard met onsite
- -Address long -term failures of controls
- -Clean up the most you can and rely less on IC's
- -Address / ensure long-term maintenance and upgrade eng. controls
- -Don't forget ground water

For The Agenda Group

- Updated on UBC and industrial area characterization
- Internal Dosimetry
- NFA Process (RFCA attachment 6)
 - ALARA Discussion
- Group discussion priorities among ALARA factors
- Case studies NFA
- Approach (bottom-up versus top-down)
- Process Intermediate decision documents?
 - Key Parameters 8/8
- Inhalation rate
- Mass loading
- Soil ingestion rate
- DCF'S
- Vegetable intakes

- Discuss application across scenarios

July 11, 2001 RFCA Meeting Minutes

NS: On page 5, there's a discussion concerning the memorandum issued by Tom Pentacost. That question came up because there was a slide from the ALARA process that said that in addition to using ALARA to go backwards if you have an RSAL, you can use the ALARA analysis to get a more stringent cleanup. The slide also indicated it could go the other way to justify not reaching the RSAL. If it's not technically feasible or if it's too expensive and you could justify having a less conservative cleanup level than the RSAL. Joe confirmed that that's what the slide meant. There's no indication of that in the minutes, though there is an indication that Tom Pentacost hinted at that in his memorandum. I would like to capture that.

RH: Would you look at the last paragraph at the bottom of page 6? See if that helps any on that issue.

NS: It sort of does. I think it could be stronger. I think it could be ... more firmly, since it's such an important aspect of the discussion that we had.

RH: Okay. I will do that.

July 5, 2001

Dear Stakeholder:

The Rocky Flats Cleanup Agreement (RFCA) Stakeholder Focus Group will meet at the Broomfield Municipal Center at One DesCombes Drive on July 11, 2001 from 3:30 to 6:30 p.m.

The agenda for the July 11, 2001 meeting is enclosed (Attachment A). We will discuss the following topics:

- RSAL Working Group Update
- RSALs: ALARA
- RFCA Parties' Feedback What heard, how used, decisions / choices made
- RSALs: Task 3 Plan Future Agenda Topics
- RSALs: Task 4 Discuss Need for Wind Tunnel Peer Review

The meeting minutes for the June 20, 2001 meeting are enclosed as Attachment B.

The RSALs Working Group met June 21 and June 28. The actions items resulting from the meetings are Attachment C.

If you need additional information to prepare you for the Focus Group discussion on July 11, 2001, please contact Christine Bennett of AlphaTRAC, Inc. at 303 428-5670 (cbennett@alphatrac.com). Christine will help to find the appropriate resource for you.

You may call either Christine or me if you have any questions, comments, or suggestions concerning the RFCA Stakeholder Focus Group or the upcoming meeting.

Sincerely,

C. Reed Hodgin, CCM Facilitator / Process Manager

Cleanup Decision-Making at Rocky Flats Under the Rocky Flats Cleanup Agreement (RFCA) - a Facilitator's View

C. Reed Hodgin
Facilitator, RFCA Stakeholder Focus Group

The following is my understanding of the decision-making process being applied to cleanup decisions at the Rocky Flats Environmental Technology Site (RFETS), and how the RFCA Stakeholder Focus Group fits into the process.

WHAT GOVERNS CLEANUP DECISIONS?

RFCA is the regulatory foundation for cleanup at RFETS and represents a formal agreement among the cleanup parties - the U. S. Department of Energy (DOE), the U. S. Environmental Protection Agency (EPA), and the Colorado Department of Public health and Environment (CDPHE). The RFCA integrates the complex regulatory requirements for Rocky Flats, overseen by multiple regulatory agencies, into a single regulatory agreement.

Activities under this agreement are regulated by the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), the Resource Conservation and Recovery Act (RCRA), the National Oil and Hazardous Substances Pollution Contingency Plan, the Colorado Hazardous Waste Act (CHWA), and their implementing regulations, and other applicable State environmental laws. DOE is responsible for satisfying the requirements of the agreement even if the work is ultimately performed by another agent, such as the Rocky Flats integrating management contractor. All cleanup decisions are made within the RFCA framework.

WHO ARE THE DECISION-MAKERS?

The ultimate decision-makers in the RFCA process are the Agency "Principals." The designated Principals are:

• CDPHE: Director, Office of Environment

• EPA: Deputy Region VIII Administrator

• DOE: Manager, Rocky Flats Field Office.

However, it is important to remember that decision-making under RFCA is a PROCESS, rather than personal decisions by the Principals. The process involves investigation and alternatives evaluation at the staff level in one or more of the agencies, joint evaluation of alternatives, and development of a recommended decision. The Principals are kept up-to-date on the decision development process but are not usually directly involved. They get involved when a joint recommendation is agreed upon at the working level and ready for their review or when agreement can not be reached among the agencies and the disagreement can not be resolved at lower levels.

The Principals reserve the right to make decisions that disagree with staff recommendations, but in practice are highly likely to concur in proposed decisions that have the joint support of their staffs. It is a safe working assumption that extraordinary circumstances (such as key new information not known to the staffs) would have to exist for the Principals to discard a recommendation jointly agreed to by the agency staffs.

Because of this, the most important agency representatives in the decision-making process are the RFCA Coordinators. Each agency Principal has designated a RFCA Coordinator to act as the lead for the agency's participation in the RFCA process and to interact with their counterparts at the other agencies in developing recommendations. The RFCA Coordinators lead and coordinate the day-to-day investigations and evaluations by the agency staffs; review and concur with working-level findings, choices, and recommendations; and lead the development of recommended decisions for submittal to the Principals. Because of the RFCA Coordinators' designated responsibilities and intimate familiarity with the issues, the Principals rely heavily on the advice of the RFCA Coordinators and trust them to bring forward sound, jointly supported recommendations.

It should be noted that, under its contract, Kaiser-Hill is directly involved in the staff level investigations and evaluations conducted in support of cleanup decision-making. However, Kaiser-Hill is NOT a party to RFCA - it advises and acts as technical support to one of the parties (DOE). Kaiser-Hill may propose recommendations and

strategies to DOE, but DOE is solely responsible for any findings or recommendations it takes to the other RFCA parties.

WHAT IS THE MECHANISM FOR DECISION-MAKING?

The key cleanup decisions under the RFCA will be made through the development, review, and approval of decision documents. Examples of such decision documents are: Draft Permit Modifications/Proposed Plans, RFCA Standard Operating Protocols (RSOPs), Proposed Action Memorandums (PAMs), Interim Measure/Interim Remedial Actions (IM/IRAs), Closure Plans, the RFCA Integrating Decision Document (RIDD), and the Radioactive Soil Action Level (RSAL) Review.

Under RFCA, the documents are submitted to and approved by the "Lead Regulatory Agency." RFCA designates the EPA as the Lead Regulatory Agency on remedial activities in the Buffer Zone or offsite areas and the State for the industrial area and any issues surrounding siting of a waste facility. The RIDD and RSAL Review are jointly authored by the three agencies.

HOW IS THE COMMUNITY INVOLVED IN CLEANUP DECISION-MAKING?

The RFCA agencies have been expanding the traditional regulatory formal comment process to include informal interaction with and input from the community. Forums such as the D&D Pizza Group and the RFCA Stakeholder Focus Group are examples of this trend.

The community is directly involved in formulating cleanup decisions for Rocky Flats in four formal and informal ways:

Formal Public Comment on Draft Decision-Documents

The RFCA specifies that public review and comment will be provided for key decision documents such as those listed above. This is the traditional regulatory public comment process and is consistent with requirements under CERCLA. A formal comment period will be announced and comments collected. The authoring agency will review and, where appropriate, incorporate comments received. The Lead

Regulatory Agency will determine if public comments have been properly addressed and either accept the revised draft document or return it to the authoring agency for further revision.

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- The RFCA Project Coordinators and technical staff resolve public comments.
- The RFCA Project Coordinators submit pu7blic comments, responses, and any unresolved issues to the RFCA Principals.
- The RFCA Principals evaluate the pu7blic comments, responses, and any unresolved issues and make a final joint decision on the RSAL.

I would like to thank Leroy Moore and Tom Marshall for sharing the memo the RMPJC received from Dr. Arjun Makhijani. I found the memo to be very interesting; there are undoubtedly many factors that determine whether a person contracts cancer. Individual genetic predisposition to cancer may be the most important. It is always possible that with further research we will refine our understanding of how radiation effects cells. On the other side; I have read that radiation is possibly the best understood carcinogen. Many chemicals are only now being found to be carcinogens. I am also very optimistic that in the next fifteen to twenty years cancer may be treatable.

I have assumed that when Leroy spoke of preferring the risk based approach vs. the dose approach he was referring to the ICRP dose conversion factors as being less conservative than the EPA HEAST slope factors. The RSAL working group is finding that for Pu using the ICRP 72 DCF's and the new PUB 13 slope factors it is not obvious that this is the case.

I am now confused. Dr. Makhijani seems to be implying that new cancer slope factors should be developed. He seems to be saying that when developing these new factors criteria such as population specific risks, synergistic risks, non cancer risks, and sensitive populations should be taken into account. This opens a whole new dilemma for setting the RSAL's; who is to develop these new slope factors, what data will they use, who and with what money will work on this project proceed. When will it be finalized. At this late date, I don't believe this is a viable process. Another way of interpreting Dr. Makhijani's concerns is that the working group should use the current cancer slope factors; but, that they add a safety factor. It is my understanding that the RSAL working group has included a number of safety factors and will summarize these in the final report. Just one example is that although the future wildlife refuge is over 6000 acres in size the worker will spend 100% of his time on the 330 most contaminated acres year after year.

Given the current EPA methodology (RAGS) and the current NRC methodology (RESRAD-dose) the internal and external exposure are summed and multiplied by the HEAST cancer slope factors for risk and the ICRP dose conversion factors for dose. Neither directly considers the points brought up by Dr. Makhijani. I would appreciate Leroy's or Dr. Makhijani's comments on whether they would be satisfied adding appropriate safety factors or whether they are repudiating both the NRC and the EPA methodology.

RFCA Stakeholder Focus Group Path Forward • DRAFT (Revised 07/02/01)

Meeting	Agenda		
July 11	RSALs: Working Group Update		
	• RSALs: ALARA		
	• RSALs: Task 3 – Plan Future Agenda Topics		
	• RSALs: Task 4 – Discuss Need for Wind Tunnel Peer Review		
	RFCA Parties Feedback – What Heard, How Used, Decisions / Choices Made		
July 25	RSALs: Working Group Update		
	• RSALs: Task 3 - Parameter Discussion and Modeling Results		
	End State: Surface Contamination		
	Note: Meeting will begin at 3:00 pm and end at 6:30 pm		
August 8	RSALs: Working Group Update		
	• RSALs: Task 3 Discussion, Cont.		
	• RSALs: ALARA, Cont.		
	End State: Subsurface Contamination		
August 22	RSALs: Working Group Update		
	• RSALs: Parameter Evaluation (Task 3) – Draft Report, and Questions for Peer Reviewers and Clarification		
	RSALs: Multi-tiers		
	• End State: Miscellaneous Topics		
	RFCA Parties Feedback – What Heard, How Used, Decisions / Choices Made		
September 5	Dialog With RFCA Principals		
	RSALs: Working Group Update		
ļ	RSALs: Fires or Task 2 Final Discussion or Task 4 Final Discussion		
	End State: Stewardship II		
September	Dialog With RFCA Principals		
19	RSALs: Working Group Update		
	• RSALs: Parameter Evaluation (Task 3) – Peer Review and Responses		
	End State: Holistic View Discussion		

June 22, 2001

Dear Stakeholder:

The Rocky Flats Cleanup Agreement (RFCA) Stakeholder Focus Group will next meet at the Broomfield Municipal Center at One DesCombes Drive on July 11, 2001.

In the meantime, at the June 6, 2001 RFCA Focus Group meeting, Russell McAllister presented RFCAs' parties responses to RSALs Task 2 Model Evaluation peer review comments. Please respond to Russell with final comments or issues at 303 966-9692 or email him at russell.mccallister@rf.doe.gov by Monday, June 25, 2001. We will schedule Russell for another meeting with his responses to any questions or concerns still held regarding Task 2.

Sincerely,

Christine Bennett

